

LNP™ THERMOCOMP™ LF006 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LF006 is a compound based on Polyetheretherketone resin containing Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound LF-1006 BK905

Product reorder name: LF006

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.54	g/cm ³	ASTM D792
--	1.53	g/cm ³	ISO 1183
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13200	MPa	ASTM D638
--	13100	MPa	ISO 527-2/1
Tensile Strength			
Fracture	176	MPa	ASTM D638
Fracture	175	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.0	%	ASTM D638
Fracture	1.9	%	ISO 527-2
Flexural Modulus			
--	10800	MPa	ASTM D790
--	12700	MPa	ISO 178
Flexural Strength			
--	241	MPa	ASTM D790
--	264	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ²	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	850	J/m	ASTM D4812
23°C ³	57	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	14.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	> 299	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	> 240	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	> 299	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	> 240	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	1.8E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	1.7E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	4.8E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (0.780 mm, Testing by SABIC)	V-0	UL 94	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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Recommended distributors for this material

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